

Sample abstract page

CLAIMS

1. This unit (arm) allows making holes in the sides, bases, and ceilings in the carpentry upon making furniture, to facilitate making holes although presence of different thicknesses to be perforated through opening or closing it. By opening the two tacks 66 and 66 and adjusting according to required thickness then we fast the two tacks, thus it is fit for making holes in any thickness, and not confined to one thickness.
 2. This unit (arm) allows upon being used with the electric drill changing the distance from the start point 56 by opening the two tacks 67 and 67 then fastening them according to the required distance.
 3. This unit (arm) allows obtaining a large number of angles in the direction of axis of the two arms 11 and 11, by changing the position of 75 and 75 inside 65 and 65, then fastening the two tacks 66 and 66 according to the angle required.
 4. This unit (arm) allows obtaining a large number of angles in the direction of the axis perpendicular to 11 and 11, by changing the position of 85 inside 76, then fastening by the nut 61 according to the angle required.
- If we suppose that we obtain:
- A- x angle in the direction of 11 and 11
 - B- y angle in the direction perpendicular to 11 and 11 then we obtain a number of angle $s=xy$ (Angle)
5. This unit (arm) allows the using of a large number of electric drill's bites which enter into 87, by changing the units 51 (51 a large number of 51).
- 51 has different inner diameters and constant external diameter which enter into 87 tightly. Thus we use different electric drill's bites: 4mm, 5mm, and 6mm ... etc.

AMENDED CLAIMS

**[Received by the International Bureau on 23 April 2004 (23.04.04):
original claims 1-5 replaced by amended claims 1-9]**

- (1) The invention is a fine arm for the electric drill , with multiple uses and easily operated.**

This arm is used as one unit , and none of its parts can be used separately.

It is characterized by being able to be adjusted before use according to our needs .

It is characterized by having several cylinders installed on , see fig 87 , fig 51 which enter into fig 87.

It is characterized by it ability to make holes at any poin in the thickness.

It is characterized at any point away from the beginning of the arm.

It is characterized by it ability to make holes with many angles in the direction of the axis of the arm.

It is characterized by it ability to make holes with many angles , in the direction perpendicular to the axis of the arm.

It is characterized by it ability to make holes with angles in both of the aforementioned directions.

It is characterized by it ability to make holes with different diameters.

- (2) The invention is a fine arm for the electric drill , with multiple uses, and easily operated.**

This arm is used as one unit , and none of its parts can be used separately.

It is characterized by being able to be adjusted before use according to our needs .

It is characterized by having several cylinders installed on , see fig 87 , fig 51 which enter into fig 87.

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It is characterized at any point away from the beginning of the arm.

It is characterized by its ability to make holes with many angles in the direction of the axis of the arm.

It is characterized by its ability to make holes with many angles, in the direction perpendicular to the axis of the arm.

It is characterized by its ability to make holes with angles in both of the aforementioned directions.

It is characterized by its ability to make holes with different diameters.

Upon using this arm, it is characterized by: it should be adjusted before use.

It contains more than one, see fig 87 which enters into fig 51, thus allowing the electric drill to make holes more than once, after fixing the arm on each side, then it is used to make holes in the bases after fixing it on each base. That is to mean, the arm is adjusted according to A, B, C and D.

A. The dimension required from the beginning of the arm.

B. The thickness required.

C. The angle required, in the direction of the arm's axis, or in the direction perpendicular to the arm's axis or, in both of the aforementioned directions.

D. The diameter required, using a bite which is equal to it.

After adjusting the arm

Firstly (Sides) : We fix the arm on the side's thickness required, then we make holes by the electric drill, thus we obtain the number of holes required in the side without moving the arm on the side.

This method is used for all the sides, to obtain holes in them. We place the cylinder into the holes, thus the holes are made accurately and this doesn't take time and effort.

Unlike prior art , where the unit is moved on the side to obtain one hole every time , and this takes time , effort and increasing the probability of error.

Secondly (Bases) or ceiling

The arm is fixed on the base or the ceiling after adjusting it as required , then we make holes by the electric drill , to obtain the holes in the sites required exactly , unlike the prior art.

We place the side over the base , the cylinders of the sides enter thoroughly in the holes of the bases .

That is to mean , the arm is adjusted , then it is used for any number of sides and bases.

(3) The invention is a fine arm for the electric drill , with multiple uses, and easily operated.

This arm is used as one unit , and none of its parts can be used separately.

It is characterized by being able to be adjusted before use according to our needs .

It is characterized by having several cylinders installed on , see fig 87 , fig 51 which enter into fig 87.

It is characterized by its ability to make holes at any point in the thickness.

It is characterized at any point away from the beginning of the arm.

It is characterized by its ability to make holes with many angles in the direction of the axis of the arm.

It is characterized by its ability to make holes with many angles , in the direction perpendicular to the axis of the arm.

It is characterized by its ability to make holes with angles in both of the aforementioned directions.

It is characterized by its ability to make holes with different diameters.

It is characterized by presence of more than one cylinder installed on , see fig 87 and fig 51 which enters into fig 87 , thus allowing making more than hole every time , whether in the side or the base .

Up on fixing the arm on the side or the base , we make the holes required once , with out moving the arm ,therefore fulfilling precision and saving effort and time.

(4) The invention is a fine arm for the electric drill , with multiple uses, and easily operated.

This arm is used as one unit , and none of its parts can be used separately.

It is characterized by being able to be adjusted before use according to our needs .

It is characterized by having several cylinders installed on , see fig 87 , fig 51 which enter into fig 87.

It is characterized by its ability to make holes at any point in the thickness.

It is characterized at any point away from the beginning of the arm.

It is characterized by its ability to make holes with many angles in the direction of the axis of the arm.

It is characterized by its ability to make holes with many angles , in the direction perpendicular to the axis of the arm.

It is characterized by its ability to make holes with angles in both of the aforementioned directions.

It is characterized by its ability to make holes with different diameters.

It is characterized by its ability to making a hole in the thickness at any point in the thickness as required ; in the middle or whatever or whatever. It is always adjusted equal to the side's thickness.

This unit (arm) allows making holes in the side's bases , and ceiling in the carpentry up on making furniture , as it facilitates making holes through the presence of different thicknesses to be perforated through opining or closing it. By opining the two tacks 66 and 66 and adjusting according to the required thickness , then we fast the two tacks , thus it is fit for making holes in any thickness , as it is not confined to one thickness.

That is to mean :

- a. It is opened and closed according to the required thickness (perpendicularly to the arm's axis)
- b. The center of the hole is determined in relation to the thickness as required . i . e, the center is moving (The hole's center is moving perpendicularly to the arm's axis).

prior art , where the thickness and the center ~~is~~ non moving.

- (5) The invention is a fine arm for the electric drill , with multiple uses, and easily operated.

This arm is used as one unit , and none of its parts can be used separately.

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It is characterized by having several cylinders installed on , see fig 87 , fig 51 which enter into fig 87.

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It is characterized by its ability to make holes with many angles, in the direction perpendicular to the axis of the arm.

It is characterized by its ability to make holes with angles in both of the aforementioned directions.

It is characterized by its ability to make holes with different diameters.

It is characterized by its ability to make holes at any point from the start point of the arm this unit (arm) allows up on using with the electric drill to change the distance from the start point drill to change the distance from the start point 56 by opening the two tacks 67 and 67, then fastening them according to the required distance. i.e., the distance from the start point is changes as required. Thus it is unlike prior art in which the distance is change by moving the unit each time.

(6) The invention is a fine arm for the electric drill, with multiple uses, and easily operated.

This arm is used as one unit, and none of its parts can be used separately.

It is characterized by being able to be adjusted before use according to our needs.

It is characterized by having several cylinders installed on, see fig 87, fig 51 which enter into fig 87.

It is characterized by its ability to make holes at any point in the thickness.

It is characterized at any point away from the beginning of the arm.

It is characterized by its ability to make holes with many angles in the direction of the axis of the arm.

It is characterized by its ability to make holes with many angles , in the direction perpendicular to the axis of the arm.

It is characterized by its ability to make holes with angles in both of the aforementioned directions.

It is characterized by its ability to make holes with different diameters.

It is characterized by its ability to allow obtaining a large number of angles in the direction of the axis of the two arms 11 and 11 , by changing the position of 75 and 75 inside 65 and 65 , then fastening the two tacks 66 and 66 according to the angle required.

(7) The invention is a fine arm for the electric drill , with multiple uses, and easily operated.

This arm is used as one unit , and none of its parts can be used separately.

It is characterized by being able to be adjusted before use according to our needs .

It is characterized by having several cylinders installed on , see fig 87 , fig 51 which enter into fig 87.

It is characterized by its ability to make holes at any point in the thickness.

It is characterized at any point away from the beginning of the arm.

It is characterized by its ability to make holes with many angles in the direction of the axis of the arm.

It is characterized by its ability to make holes with many angles , in the direction perpendicular to the axis of the arm.

It is characterized by its ability to make holes with angles in both of the aforementioned directions.

It is characterized by its ability to make holes with different diameters.

It is characterized by its ability to allow obtaining a large number of angles in the direction of the axis, perpendicularly to 11 and 11, by changing the position of 85 inside 76, then fastening by the nut 61 according to the angle required.

(8) The invention is a fine arm for the electric drill, with multiple uses, and easily operated.

This arm is used as one unit, and none of its parts can be used separately. It is characterized by being able to be adjusted before use according to our needs.

It is characterized by having several cylinders installed on, see fig 87, fig 51 which enter into fig 87.

It is characterized by its ability to make holes at any point in the thickness.

It is characterized at any point away from the beginning of the arm.

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It is characterized by its ability to make holes with angles in both of the aforementioned directions.

It is characterized by its ability to make holes with different diameters.

It is characterized by its ability to make holes in both of the aforementioned directions.

If we suppose that we obtain :

a- z angle in the direction of 11 and 11.

b- y angle perpendicular to 11 and 11, then we obtain a number of angles $s = xy$ (angle).

(9) The invention is a fine arm for the electric drill , with multiple uses, and easily operated.

This arm is used as one unit , and none of its parts can be used separately.

It is characterized by being able to be adjusted before use according to our needs .

It is characterized by having several cylinders installed on , see fig 87 , fig 51 which enter into fig 87.

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It is characterized by it ability to make holes with many angles , in the direction perpendicular to the axis of the arm.

It is characterized by it ability to make holes with angles in both of the aforementioned directions.

It is characterized by it ability to make holes with different diameters.

This unit (arm) allows using a large number of the bites of the electric drill , which enter into 87 by changing the units 51 (51 a large number of 51).

51 has different inner diameters and constant external diameter which enter into 87 tightly. Thus we use different electric drill's bites :

4 mm , 5 mm , and 6 mm Etc .